

INCH-POUND

MIL-PRF-39016/42D
AMENDMENT 6
6 October 2003
SUPERSEDING
AMENDMENT 5
12 October 1999

PERFORMANCE SPECIFICATION SHEET

RELAYS, ELECTROMAGNETIC, ESTABLISHED RELIABILITY, DPDT,
LOW LEVEL TO 1.0 AMPERE WITH INTERNAL DIODE FOR COIL
TRANSIENT SUPPRESSION, TERMINALS 0.100-INCH GRID PATTERN
(SENSITIVE, 60 MILLIWATTS, COIL OPERATE POWER AT 25°C)

This amendment forms a part of MIL-PRF-39016/42D, dated 20 July 1988, and is
approved for use by all Departments and Agencies of the Department of Defense.

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FIGURE 1: Delete “.370 SQ MAX” and substitute “.375 SQ MAX.”

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FIGURE 2: Delete “.370 SQ MAX” and substitute “.375 SQ MAX.”

FIGURE 2: Mounting pad: Delete “.170 ± .005” and substitute “.140 minimum, .175 maximum.”

FIGURE 2: Add note 5: “Relays shall have a plus (+) sign placed on the circuit diagram as shown.” (This reverses
a change made by amendment 4).

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REQUIREMENTS, contact data, load ratings, high level (relay case grounded), resistive, delete and substitute:

“Resistive:

1.0 ampere at 28 V dc.

250 milliamperes at 115 V ac 60 and 400 Hz case not grounded.

100 milliamperes at 115 V ac 60 and 400 Hz case grounded.”

REQUIREMENTS, contact data, overload (high level only), delete and substitute:

“Overload (high level only): Two times rated current. Not applicable to ac load ratings.”

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ELECTRICAL DATA, dielectric withstanding voltage, delete and substitute:

	Sea level V rms (60 Hz)	Post intermediate current life test Sea level V rms (60 Hz)	Altitude V rms (60 Hz)
Between case, frame or enclosure, and all contacts in the energized and deenergized positions: -----	500	500	125 All terminals to case
Between case, frame or enclosure, and coil: -----	500	500	
Between all contacts and coil: -----	500	500	
Between open contacts in the energized and deenergized positions: --	500	375	
Between contact poles in the energized and deenergized positions: ---	500	500	
Between coils of dual coil relays	NA	NA	

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* Group A testing for relay, delete: "Before installation of pad, perform subgroup 2 of group A tests. After installation of pad, perform subgroups 3 and 4 of group A tests." and substitute "Perform seal test immediately preceding the A2 electrical tests. Relay leads shall be formed and the mounting pad removed before the seal test. After the seal test, the mounting pad shall be rigidly attached to the relay and the remaining group A tests performed (The seal test is not performed with group A4.)."

The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA-CC

(Project 5945-1223-05)

Review activities:
Army - AR
Navy - MC, OS, SH
Air Force - 19, 99